

## RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/S10,276  
Source: PCT  
Date Processed by STIC: 10-19-04

# ***ENTERED***

**CRF Errors Edited by the STIC Systems  
Branch**

Serial Number: 10/510,276 : CRF Edit Date: 10-19-04  
Edited by: KL

Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

Corrected the SEQ ID NO. Sequence numbers edited were:

Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

Deleted: ☒ invalid beginning/end-of-file text ; ☐ page numbers

Inserted mandatory headings/numeric identifiers, specifically:

Moved responses to same line as heading/numeric identifier, specifically:

Other:



PCT

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/510,276

DATE: 10/19/2004

TIME: 17:19:23

Input Set : A:\pto.kd.txt

Output Set: N:\CRF4\10192004\J510276.raw

3 <110> APPLICANT: MONASH UNIVERSITY  
 5 <120> TITLE OF INVENTION: Immunotherapeutic and immunoprophylactic reagents  
 7 <130> FILE REFERENCE: 12187260/TDO  
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/510,276  
 C--> 9 <141> CURRENT FILING DATE: 2004-10-04  
 9 <150> PRIOR APPLICATION NUMBER: PS1482  
 10 <151> PRIOR FILING DATE: 2002-04-02  
 12 <160> NUMBER OF SEQ ID NOS: 61  
 14 <170> SOFTWARE: PatentIn version 3.1  
 16 <210> SEQ ID NO: 1  
 17 <211> LENGTH: 241  
 18 <212> TYPE: PRT  
 19 <213> ORGANISM: Lolium perenne  
 21 <400> SEQUENCE: 1  
 23 Ile Ala Lys Val Pro Pro Gly Pro Asn Ile Thr Ala Glu Tyr Gly Asp  
 24 1 5 10 15  
 27 Lys Trp Leu Asp Ala Lys Ser Thr Trp Tyr Gly Lys Pro Thr Gly Ala  
 28 20 25 30  
 31 Gly Pro Lys Asp Asn Cys Gly Ala Cys Gly Tyr Lys Asp Val Asp Lys  
 32 35 40 45  
 35 Ala Pro Phe Asn Gly Met Thr Gly Cys Gly Asn Thr Pro Ile Phe Lys  
 36 50 55 60  
 39 Asp Gly Arg Gly Cys Gly Ser Cys Phe Glu Ile Lys Cys Thr Lys Pro  
 40 65 70 75 80  
 43 Glu Ser Cys Ser Gly Glu Ala Val Thr Val Thr Ile Thr Asp Asp Asn  
 44 85 90 95  
 47 Glu Glu Pro Ile Ala Pro Tyr His Phe Asp Leu Ser Gly His Ala Phe  
 48 100 105 110  
 51 Gly Ser Met Ala Lys Lys Gly Glu Gln Lys Leu Arg Ala Ser Ala  
 52 115 120 125  
 55 Gly Glu Leu Glu Leu Gln Phe Arg Arg Val Lys Cys Lys Tyr Pro Asp  
 56 130 135 140  
 59 Gly Thr Lys Pro Thr Phe His Val Glu Lys Ala Ser Asn Pro Asn Tyr  
 60 145 150 155 160  
 63 Leu Ala Ile Leu Val Lys Tyr Val Asp Gly Asp Gly Asp Val Val Ala  
 64 165 170 175  
 67 Val Asp Ile Lys Glu Lys Gly Lys Asp Lys Trp Ile Glu Leu Lys Glu  
 68 180 185 190  
 71 Ser Trp Gly Ala Val Trp Arg Ile Asp Thr Pro Asp Lys Leu Thr Gly  
 72 195 200 205  
 75 Pro Phe Thr Val Arg Tyr Thr Thr Glu Gly Gly Thr Lys Ser Glu Val  
 76 210 215 220  
 79 Glu Asp Val Ile Pro Glu Gly Trp Lys Ala Asp Thr Ser Tyr Ser Ala

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80 225          230          235          240
83 Lys
87 <210> SEQ ID NO: 2
88 <211> LENGTH: 276
89 <212> TYPE: PRT
90 <213> ORGANISM: Lolium perenne
92 <400> SEQUENCE: 2
94 Ala Asp Ala Gly Tyr Thr Pro Ala Ala Ala Ala Thr Pro Ala Thr Pro
95 1          5          10          15
98 Ala Ala Thr Pro Ala Ala Ala Gly Gly Lys Ala Thr Thr Asp Glu Gln
99          20          25          30
102 Lys Leu Leu Glu Asp Val Asn Ala Gly Phe Lys Ala Ala Val Ala Ala
103          35          40          45
106 Ala Ala Asn Ala Pro Pro Ala Asp Lys Phe Lys Ile Phe Glu Ala Ala
107          50          55          60
110 Phe Ser Glu Ser Ser Lys Gly Leu Leu Ala Thr Ser Ala Ala Lys Ala
111 65          70          75          80
114 Pro Gly Leu Ile Pro Lys Leu Asp Thr Ala Tyr Asp Val Ala Tyr Lys
115          85          90          95
118 Ala Ala Glu Gly Ala Thr Pro Glu Ala Lys Tyr Asp Ala Phe Val Thr
119          100         105         110
122 Ala Leu Thr Glu Ala Leu Arg Val Ile Ala Gly Ala Leu Glu Val His
123          115         120         125
126 Ala Val Lys Pro Ala Thr Glu Glu Val Pro Ala Ala Lys Ile Pro Thr
127          130         135         140
130 Gly Glu Leu Gln Ile Val Asp Lys Ile Asp Ala Ala Phe Lys Ile Ala
131 145          150         155         160
134 Ala Thr Ala Ala Asn Ala Ala Pro Thr Asn Asp Lys Phe Thr Val Phe
135          165         170         175
138 Glu Ser Ala Phe Asn Lys Ala Leu Asn Glu Cys Thr Gly Gly Ala Tyr
139          180         185         190
142 Glu Thr Tyr Lys Phe Ile Pro Ser Leu Glu Ala Ala Val Lys Gln Ala
143          195         200         205
146 Tyr Ala Ala Thr Val Ala Ala Pro Glu Val Lys Tyr Ala Val Phe
147          210         215         220
150 Glu Ala Ala Leu Thr Lys Ala Ile Thr Ala Met Thr Gln Ala Gln Lys
151 225          230         235         240
154 Ala Gly Lys Pro Ala Ala Ala Ala Thr Gly Ala Ala Thr Val Ala
155          245         250         255
158 Thr Gly Ala Ala Thr Ala Ala Ala Gly Ala Ala Thr Ala Ala Ala Gly
159          260         265         270
162 Gly Tyr Lys Ala
163          275
166 <210> SEQ ID NO: 3
167 <211> LENGTH: 20
168 <212> TYPE: PRT
169 <213> ORGANISM: Lolium perenne
171 <400> SEQUENCE: 3
173 Ile Ala Lys Val Pro Pro Gly Pro Asn Ile Thr Ala Glu Tyr Gly Asp

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174 1          5          10          15
177 Lys Trp Leu Asp
178          20
181 <210> SEQ ID NO: 4
182 <211> LENGTH: 20
183 <212> TYPE: PRT
184 <213> ORGANISM: Lolium perenne
186 <400> SEQUENCE: 4
188 Ile Thr Ala Glu Tyr Gly Asp Lys Trp Leu Asp Ala Lys Ser Thr Trp
189 1          5          10          15
192 Tyr Gly Lys Pro
193          20
196 <210> SEQ ID NO: 5
197 <211> LENGTH: 20
198 <212> TYPE: PRT
199 <213> ORGANISM: Lolium perenne
201 <400> SEQUENCE: 5
203 Leu Asp Ala Lys Ser Thr Trp Tyr Gly Lys Pro Thr Gly Ala Gly Pro
204 1          5          10          15
207 Lys Asp Asn Gly
208          20
211 <210> SEQ ID NO: 6
212 <211> LENGTH: 20
213 <212> TYPE: PRT
214 <213> ORGANISM: Lolium perenne
216 <400> SEQUENCE: 6
218 Lys Pro Thr Gly Ala Gly Pro Lys Asp Asn Gly Gly Ala Cys Gly Tyr
219 1          5          10          15
222 Lys Asp Val Asp
223          20
226 <210> SEQ ID NO: 7
227 <211> LENGTH: 20
228 <212> TYPE: PRT
229 <213> ORGANISM: Lolium perenne
231 <400> SEQUENCE: 7
233 Asn Gly Gly Ala Cys Gly Tyr Lys Asp Val Asp Lys Ala Pro Phe Asn
234 1          5          10          15
237 Gly Met Thr Gly
238          20
241 <210> SEQ ID NO: 8
242 <211> LENGTH: 20
243 <212> TYPE: PRT
244 <213> ORGANISM: Lolium perenne
246 <400> SEQUENCE: 8
248 Val Asp Lys Ala Pro Phe Asn Gly Met Thr Gly Cys Gly Asn Thr Pro
249 1          5          10          15
252 Ile Phe Lys Asp
253          20
256 <210> SEQ ID NO: 9

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257 <211> LENGTH: 20
258 <212> TYPE: PRT
259 <213> ORGANISM: Lolium perenne
261 <400> SEQUENCE: 9
263 Thr Gly Cys Gly Asn Thr Pro Ile Phe Lys Asp Gly Arg Gly Cys Gly
264 1          5          10          15
267 Ser Cys Phe Glu
268          20
271 <210> SEQ ID NO: 10
272 <211> LENGTH: 20
273 <212> TYPE: PRT
274 <213> ORGANISM: Lolium perenne
276 <400> SEQUENCE: 10
278 Lys Asp Gly Arg Gly Cys Gly Ser Cys Phe Glu Ile Lys Cys Thr Lys
279 1          5          10          15
282 Pro Glu Ser Cys
283          20
286 <210> SEQ ID NO: 11
287 <211> LENGTH: 20
288 <212> TYPE: PRT
289 <213> ORGANISM: Lolium perenne
291 <400> SEQUENCE: 11
293 Phe Glu Ile Lys Cys Thr Lys Pro Glu Ser Cys Ser Gly Glu Ala Val
294 1          5          10          15
297 Thr Val Thr Ile
298          20
301 <210> SEQ ID NO: 12
302 <211> LENGTH: 20
303 <212> TYPE: PRT
304 <213> ORGANISM: Lolium perenne
306 <400> SEQUENCE: 12
308 Ser Cys Ser Gly Glu Ala Val Thr Val Thr Ile Thr Asp Asp Asn Glu
309 1          5          10          15
312 Glu Pro Ile Ala
313          20
316 <210> SEQ ID NO: 13
317 <211> LENGTH: 20
318 <212> TYPE: PRT
319 <213> ORGANISM: Lolium perenne
321 <400> SEQUENCE: 13
323 Thr Ile Thr Asp Asp Asn Glu Glu Pro Ile Ala Pro Tyr His Phe Asp
324 1          5          10          15
327 Leu Ser Gly His
328          20
331 <210> SEQ ID NO: 14
332 <211> LENGTH: 20
333 <212> TYPE: PRT
334 <213> ORGANISM: Lolium perenne
336 <400> SEQUENCE: 14

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```

338 Ile Ala Pro Tyr His Phe Asp Leu Ser Gly His Ala Phe Gly Ser Met
339 1          5          10          15
342 Ala Lys Lys Gly
343          20
346 <210> SEQ ID NO: 15
347 <211> LENGTH: 20
348 <212> TYPE: PRT
349 <213> ORGANISM: Lolium perenne
351 <400> SEQUENCE: 15
353 Gly His Ala Phe Gly Ser Met Ala Lys Lys Gly Glu Glu Gln Asn Val
354 1          5          10          15
357 Arg Ser Ala Gly
358          20
361 <210> SEQ ID NO: 16
362 <211> LENGTH: 20
363 <212> TYPE: PRT
364 <213> ORGANISM: Lolium perenne
366 <400> SEQUENCE: 16
368 Lys Gly Glu Glu Gln Asn Val Arg Ser Ala Gly Glu Leu Glu Leu Gln
369 1          5          10          15
372 Phe Arg Arg Val
373          20
376 <210> SEQ ID NO: 17
377 <211> LENGTH: 20
378 <212> TYPE: PRT
379 <213> ORGANISM: Lolium perenne
381 <400> SEQUENCE: 17
383 Ala Gly Glu Leu Glu Leu Gln Phe Arg Arg Val Lys Cys Lys Tyr Pro
384 1          5          10          15
387 Asp Asp Thr Lys
388          20
391 <210> SEQ ID NO: 18
392 <211> LENGTH: 20
393 <212> TYPE: PRT
394 <213> ORGANISM: Lolium perenne
396 <400> SEQUENCE: 18
398 Arg Val Lys Cys Lys Tyr Pro Asp Asp Thr Lys Pro Thr Phe His Val
399 1          5          10          15
402 Glu Lys Gly Ser
403          20
406 <210> SEQ ID NO: 19
407 <211> LENGTH: 20
408 <212> TYPE: PRT
409 <213> ORGANISM: Lolium perenne
411 <400> SEQUENCE: 19
413 Thr Lys Pro Thr Phe His Val Glu Lys Gly Ser Asn Pro Asn Tyr Leu
414 1          5          10          15
417 Ala Ile Leu Val
418          20

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**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/510,276

DATE: 10/19/2004

TIME: 17:19:24

Input Set : A:\pto.kd.txt

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L:9 M:270 C: Current Application Number differs, Replaced Current Application No

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date